

SURVEILLANCE PROJECT

Coordinator: Ghana DOMAIN: IIM

(Infrastructure & Information Management)

AFI REGION	PROJECT DESCRIPTION		REFERENCE IIMSG / Area of Routing # All	
Sub-domain	Title of the Project		End	
Aeronautical Communication (COM) (ICAO Facilitator: WACAF/ESAF ROs/CNS	 Surveillance : Implementation of Surveillance systems aimed at improving air traffic situational awareness Project Team Coordinator: Ghana Project Team Experts (11): Ghana, South Africa, Cameroon, Ghana, Senegal, Nigeria, Mauritania, Seychelles, IATA, ASECNA, Uganda 		Month/ Year	
Objectives	 In the framework of the technologies Roadmap for Surveillance detthe AFI strategy, assist States in the implementation of : a) Secondary Surveillance Radar Mode S (SSR) in accordar requirements of Annex 11, Air Traffic Service, Doc 4444 Navigation services and the provision of Annex 10 Volus supporting Documents b) Automatic Dependent Surveillance Contract (ADS-C) c) Automatic Dependent Surveillance Broadcast (ADS-B) g d) Multilateration (Mlat) 	nce with the Procedures me IV and it	operational for air s	
Scope	The provision of air traffic surveillance will cover all areas of rout homogeneous traffic flow in the AFI Region and will adress all Ce the provision of air avigation service for international civil aviation The implementation scheme will be in accordance with the require provision of Aeronautical surveillance as defined by the AFI Air N (AFI/RAN Abuja 1997).	enters involven. ements of the	;	

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Metrics	 a) SSR: Number of SSR stations installed: X Average availability of SSR stations : X% b) ADS-C: Number of ADS-C systems installed: X % of ATS units with ADS-C: X% Number of ADS-C interconnections implemented, % of ACCs with ADS-C systems interconn X c) ADS-B: Number of ADS-B stations installed: X % of ATS units with ADS-B: X% d) Mlat: Number of Mlat systems installed: X % of ATS units with Mlat: X% Number of Mlat interconnections implemented, % of ACCs with Mlat systems interconnections implemented, % of ACCs with Mlat systems interconnections implemented, % of ACCs with Mlat systems interconnections implemented, 		
Outcome	Surveillance service supporting enhanced aeronautical operation efficiency	nal safety, c	apacity and
Strategy	All tasks will be carried out by SUR experts nominated by AF the project, led by the Project-Team Coordinator and under the s Facilitators (ROs/CNS, Dakar and Nairobi) through the IIM SC Upon completion of the tasks, the results will be sent to the Proj document for submission to, and if necessary approval by Coordination Committee (APCC). For the purpose of collabor meetings will be held with the areas involved.	Supervision of G working m ect Facilitato 7 the APIR	f the Project ethodology. rs as a final G Projects
Justification	 The requirements for surveillance systems (SSR Mode S, ADS contained in the strategy of implementation of the surveillance systematical and the strategy of implementation of the surveillance systematical and the strategy of implementation of the surveillance systematical and the strategy of implementation of the surveillance systematical and the strategy of implementation of the surveillance systematical and the strategy of implementation of the surveillance systematical and the strategy of implementation of the surveillance systematical and the strategy of implementation of the surveillance systematical and the strategy of the surveillance of the s	tems in the A fode S will g traffic enhan al remote air ovement of rspace will p ess. ADS-B	FI Region give the Air cing safety, spaces will the space provide the Space will

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Sub-domain		Title o	f the Project		Start	End
	All APIRG projects	specifica	lly related to:			
Related Projects	 rojects ✓ PIA3-Increased effectiveness of ground based safety nets (B0-ASUR, B0 – SNET B0-ASEP) ✓ PIA4- Efficient Flight Path – Through Trajectory-based Operations (B0- TBO) 					
Project Deliverables	Relationship with the Regional Performance- Objectives (RPOs/PFFs) and ASBU Modules	KPI	Responsible	Status of Implementation ¹	Date of Delivery	Comments
	Secondary Surv	eillance	Radar Mode S (S	SSR)		
Implementation of SSR Mode S	AFI BO-ASUR, AFI BO -SNET, AFI BO-ASEP AFI BO-ASEP AFI BO-SNET PFF-CNS		 AFI SUR Project Coordinators AFI SUR Project Team Leader 		December 2017	
Restauration/Improvement of the availability of SSR Systems	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS		 AFI SUR Project Coordinators AFI SUR Project Team Leader 		December 2017	
	Automatic Dependa	ant Survei		DS-C)		I
Implementation of ADS-C	AFI BO-ASUR, AFI BO -SNET, AFI BO-ASEP AFI BO-ASEP AFI BO-SNET PFF-CNS		 ✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader 			
Improvement of the availability of ADS-C Systems	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS		 ✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader 			

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Implementation of ADS-B	AFI BO-ASUR, AFI BO -SNET, AFI BO-ASEP AFI BO-ASEP AFI BO-SNET PFF-CNS	 ✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader 			
	ľ	Multilatération			
Implementation of Mlat	AFI BO-ASUR, AFI BO -SNET, AFI BO-ASEP AFI BO-ASEP AFI BO-SNET PFF-CNS	 ✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader 			
	·	General SUR			
Implement Performance Based Surveillance (PBS) based on the Required Surveillance Performance (RSP)	AFI BO-ASUR, AFI BO -SNET, AFI BO-ASEP AFI BO-ASEP AFI BO-SNET PFF-CNS	 ✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader 			
Implementation of Surveillance Data Fusion (data sharing)	AFI BO-ASUR, AFI BO -SNET, AFI BO-ASEP AFI BO-ASEP AFI BO-SNET PFF-CNS	 ✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader 			
Teleconferences, Workshops/Seminars, meetings (French and English) on surveillance systems operation and their implementation scheme	AFI BO-ASUR, AFI BO -SNET, AFI BO-ASEP AFI BO-ASEP AFI BO-SNET PFF-CNS	 ✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader 	TBD		
Assessment/Reporting on the operation of Surveillance systems and operation	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS	 ✓ AFI COM Project Coordinators ✓ AFI SUR Project Team Leader 	TBD		

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Detailed guidance provided to States not complying with the AFI SUR Strategy	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS	 ✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader 		TBD	
List of States with Surveillance systems implemented	AFI B0-ASUR, AFI B0 -SNET, AFI B0-ASEP AFI B0-ASEP AFI B0-SNET PFF-CNS	 ✓ AFI SUR Project Coordinators ✓ AFI SUR Project Team Leader 		TBD	
Resources needed	 Funds to conduct regional guides an participate in tele Funds for meetin propose corrective foreseen SUR te 	essouces to be appointed by S meetings, Workshops, Sem d manuals. Likewise, particip conferences and coordina gs with project Team Mem e actions. States could use th sts and monitoring, and, if ce gained will result in an	ninars Missions pants must be gi ation meetings. abers in order t heir human res f necessary, co	iven facilities to assess the ources to over the fina	to results and conduct the ancial costs,

Grey	Task not started yet
Green	Activity being implemented as scheduled
Yellow	Activity started with some delay, but will be implemented on time
Red	Activity not implemented on time; mitigation measures are required